

R-1B HAZARDOUS WASTE
REPORTS

International Fuel Cells

195 Governors Highway
P.O. Box 739
South Windsor
Connecticut 06074

APR 29 1986

International
Fuel Cells

April 16, 1986

U.S. Environmental Protection Agency
CT/ME Waste Management Branch
J.F.K. Federal Building, Room 1903
Boston, MA 02203

Attention: Connecticut Reversion Analyst

References: 1. E.P.A. ID No. CTD010166791
2. Letter, E.P.A. Region 1 to Walrond, 31 March 1986.

In response to Reference 2, enclosed is International Fuel Cells' Hazardous Waste Generator Report for 1985. This report was submitted to the State of Connecticut in February, 1986. Until receiving your notice of reporting requirements for the period of Reversion, Reference 2, it was understood that the Generator Reports were to be submitted only to the State. From now on, unless otherwise notified, this report will be submitted to E.P.A. and Connecticut every two years.

Please be advised that a revised E.P.A. Hazardous Waste Permit Application, Form 3 RCRA, is being sent to your office under separate cover. This revision is being submitted to reflect a facility name change. The EPA ID Number, Reference 1, was issued to Power Systems Division, United Technologies Corporation. In April, 1985 the name was changed to International Fuel Cells. All other factors regarding hazardous waste management remain essentially the same.

Should you have any questions regarding International Fuel Cells Hazardous Waste Management, please contact me at (203)727-2413.

Sincerely,

INTERNATIONAL FUEL CELLS

Alan L. Walrond

A. L. Walrond
Hazardous Waste Management
Coordinator

/f
Encl.

HAZARDOUS WASTE GENERATOR REPORT FOR 1985

This report is for the calendar year ending December 31, 1985.
Read all instructions carefully before making any entries on the form.

CTD010166791

UNITED TECHNOLOGIES CORP
WALROND A. L. MATERIALS MANAGER
P.O. BOX 109
SOUTH WINDSOR

CT 06074

CORRECTIONS TO MAILING LABEL:

(Note any changes to name, address or contact name here.)

INTERNATIONAL FUEL CELLS
WALROND, A. L., MATERIALS MANAGER
P.O. BOX 739, 195 GOVERNORS HIGHWAY
SOUTH WINDSOR, CT 06074

I. NON-REGULATED STATUS

Complete this section only if you did not generate regulated quantities of hazardous waste at any time during 1985. Circle one code at right that best describes your status during the entire year (see instructions for explanation of codes).

1 Non-handler

This establishment's non-regulated status is expected to apply:

2 Small Quantity Generator

☐ For 1985 only ☐ Permanently ☐ Other:

IIa. GENERATOR'S EPA I.D. NUMBER: CTD010166791

IIb. GENERATOR'S SIC CODE: 3,6,2,9

III. NAME OF ESTABLISHMENT: International Fuel Cells

IV. ESTABLISHMENT MAILING ADDRESS: P.O. Box 739

Street or P.O. Box

South Windsor, CT 06074

City or Town State Zip Code

V. ESTABLISHMENT LOCATION:
(If different from Mailing Address. If same, enter "SAME")

195 Governors Highway

Street or P.O. Box

South Windsor CT 06074

City or Town State Zip Code

VI. ESTABLISHMENT CONTACT NAME: Walrond, Alan L.
(last, then first)

Phone Number (including area code): (203) 727-2413

VII. CERTIFICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are substantial penalties for submitting false information, including the possibility of fine and imprisonment.

W. H. Podolny
Print/Type Name

Signature

Chairman
Title

2-19-86
Date signed

HAZARDOUS WASTE GENERATOR REPORT FOR 1985 (Cont.)

This report is for the calendar year ending December 31, 1985

VIII. GENERATOR'S EPA ID NO.: CTD010166791IX. FACILITY NAME : Pratt & Whitney Aircraft Group
(specify facility to which all wastes on this page were shipped.)X. FACILITY'S EPA ID NO.: CTD990672081XI. FACILITY ADDRESS: 400 Main Street
(Location) (Street Address)East Hartford CT 06108
(City or Town) State Zip CodeXII. TRANSPORTATION SERVICES USED: (Name and EPA ID Number)
Pratt & Whitney Aircraft Group CTD990672081
400 Main Street
East Hartford, CT 06108

XIII. WASTE IDENTIFICATION

Line #	A. Description of Waste	B. DOT Hazard Code *	C. EPA Hazardous Waste No.	D. Amount of Waste	E. Unit of Measure	F. % Solids for Wastewater Treatment Sludges
1.	IGNITABLE SPENT SOLVENTS - VARSOL, KEROSENE, GUM SOLVENTS USED IN FUEL CELL PRODUCTION.	08	D001	7395	P	
2.	SPENT ISOPROPYL ALCOHOL USED IN FUEL CELL MANUFACTURE.	08	D001	2330	P	
3.	SPENT 1,1,1, TRICHLOROETHANE USED IN PARTS DEGREASER.	08	F002	3730	P	
4.	POTASSIUM HYDROXIDE DRY SOLID BEAD USED IN BASE CELL MANUFACTURE.	02	D002	1470	P	
5.	MIXED ALKALINE LIQUID BASICALLY POTASSIUM HYDROXIDE USED IN BASE CELL MANUFACTURE.	02	D002	7000	P	
6.	HAZARDOUS WASTE SOLID - UNCURED PHENOLIC RESIN CONTAINING PHENOL USED IN FUEL CELL MANUFACTURING.	15	U188	6312	P	
7.	WASTE POISON SOLID - N.O.S. LAB PACK FROM CHEMICAL LABS	18	D001 U165 U219	461	P	
8.	WASTE COMBUSTIBLE LIQUID - N.O.S. LAB PACK FROM CHEMICAL LABS	01	D001	138	P	
9.	WASTE OXIDIZER MATERIAL - N.O.S. LAB PACK FROM CHEMICAL LABS	16	D003	364	P	
10.	WASTE FLAMMABLE LIQUID - N.O.S. LAB PACK FROM CHEMICAL LABS		D001 U140 U220 U056	154	P	

* See Table on Page 7 for DOT Hazard Codes. Refer to Appendix for EPA Hazardous Waste Numbers.

XIV. COMMENTS AND ONE-TIME EVENTS: (Include Section or Line number.)

Check if the wastes listed on this page were generated after October 1, 1985, but were not treated or stored for more than 90 days as of December 31, 1985, and were not disposed of or shipped off-site during 1985.

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Pratt & Whitney Aircraft Group CTD990672081
400 Main Street
East Hartford, CT 06108

XIII. WASTE IDENTIFICATION

Line #	A. Description of Waste	B. DOT Hazard Code #	C. EPA Hazardous Waste No.	D. Amount of Waste	E. Unit of Measure	F. % Solids for Wastewater Treatment Sludges
1.	WASTE POISON B LIQUID - N.O.S. LAB PACK FROM CHEMICAL LABS	18	D001 III 54 P022 P118	310	P	
2.	WASTE FLAMMABLE SOLID - N.O.S. LAB PACK FROM CHEMICAL LABS	09	D001	74	P	
3.	WASTE CORROSIVE SOLID - N.O.S. LAB PACK FROM CHEMICAL LABS	02	D002	132	P	
4.	WASTE ACID LIQUID - N.O.S. BASICALLY PHOSPHORIC ACID USED IN CELL FILLING FOR SPACE SHUTTLE	02	D002	3500	P	
5.	WASTE ALKALINE CORROSIVE SOLID - N.O.S. POTASSIUM NITRATE/SODIUM NITRATE/SODIUM NITRATE USED IN HEAT BATH FURNACE	02	D002	2331	P	
6.						
7.						
8.						
9.						
10.						

* See Table on Page 7 for DOT Hazard Codes. Refer to Appendix for EPA Hazardous Waste Numbers.

XIV. COMMENTS AND ONE-TIME EVENTS: (Include Section or Line number.)

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HAZARDOUS WASTE GENERATOR REPORT FOR 1985

This report is for the calendar year ending December 31, 1985

PAGE THREE:

SECTION XV. WASTE MINIMIZATION

A. GENERATOR'S EPA ID NO.: CTD010166791

B. WASTE MINIMIZATION EFFORTS: Describe below:

- 1) the efforts undertaken during 1985 to reduce the volume and toxicity of the hazardous waste which your business generates,
- 2) the change in your waste volume (amount of increase or decrease) from 1983,
- 3) and for any volume changes identified, indicate the reason for the change.

1. ☐ REPLACING OIL BASE PAINTS WITH WATER BASE
 - ☐ INVESTIGATE ELIMINATION OF FREE PHENOLS IN UNUSABLE UNCURED PARTS AND/OR RESINS.
 - ☐ ENGINEERING TO ANALYZE HAZARDOUS WASTE GENERATION AND ATTEMPT REDUCTION THEREOF WHEN DESIGNING FUEL CELL SYSTEMS.

2. GENERATION IN POUNDS

	<u>1983</u> <u>ACTUAL</u>	<u>1985</u> <u>ACTUAL</u>
A.POTASSIUM HYDROXIDE SOLID BEAD	1,200	1,470
B.IGNITABLE SPENT SOLVENTS	10,601	7,395
C.SPENT ALCOHOL	252	2,330
D.SPENT 1,1,1, TRICHLOROETHANE	0	3,730
E.MIXED ALKALINE LIQUIDS	7,098	7,000
F.MIXED ACIDS LIQUIDS	10,500	3,500
G.PHENOLIC RESINS WITH PHENOLS	4,812	6,312
H.MIXED LAB PACKS	0	461
I.WASTE ALKALINE CORROSIVE SOLID	0	2,331
J.SLUDGE, VARNISH, PAINT MIXTURES	2,585	0

3.
 - A. INCREASE DUE TO INCREASE IN SPACE SHUTTLE FUEL CELL ACTIVITY.
 - B. DECREASE DUE TO REDUCTION OF SOLVENT USE IN THE WORKPLACE.
 - C. INCREASE DUE TO INCREASE IN SPACE SHUTTLE FUEL CELL ACTIVITY.
 - D. INCREASE DUE TO CONDENSER FAILURE IN DEGREASER SYSTEM.
 - E. NO CHANGE.
 - F. DECREASE DUE TO PRODUCTION SLOWDOWN ON COMMERCIAL FUEL CELL.
 - G. INCREASE DUE TO START-UP OF LARGE COMMERCIAL FUEL CELL PROGRAM.
 - H. INCREASE DUE TO PURGING OF CHEMICAL CRIB INVENTORIES.
 - I. INCREASE DUE TO TEARDOWN AND DISPOSAL OF OBSOLETE SALT BATH FURNACE.
 - J. DECREASE DUE TO REDUCTION OF OIL BASE PAINT INVENTORIES.

1989 Hazardous Waste Report

IDENTIFICATION AND CERTIFICATION

FORM
IC


INSTRUCTIONS: Read the detailed instructions beginning on page 7 of the 1989 Hazardous Waste Report booklet before completing this form.

SEC. I	Site name and location address. Complete items A through H. Check the box <input checked="" type="checkbox"/> in items A, B, D, E, F, G, and H if same as label; if different, enter corrections. If label is absent, enter information. Instruction page 7.		
A. EPA ID No. Same as label <input checked="" type="checkbox"/> or _____		B. Site/company name Same as label <input checked="" type="checkbox"/> or _____	
C. Has the site name associated with this EPA ID changed since 1987? <input type="checkbox"/> 1 Yes <input checked="" type="checkbox"/> 2 No			
D. Street name and number. If not applicable, enter industrial park, building name or other physical location description. Same as label <input checked="" type="checkbox"/> or _____			
E. City, town, village, etc. Same as label <input checked="" type="checkbox"/> or _____	F. County <div style="text-align: center; font-size: 1.2em; font-weight: bold;">HARTFORD</div>	G. State Same as label <input checked="" type="checkbox"/> <div style="text-align: center;"> <input type="text"/> <input type="text"/> <input type="text"/> </div>	H. Zip Code Same as label <input checked="" type="checkbox"/> <div style="text-align: center;"> <input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> </div>

SEC. II		Mailing address of site. Instruction page 7.	
A. Is the mailing address the same as the location address?		<input type="checkbox"/> 1 Yes (SKIP TO SEC. III) <input checked="" type="checkbox"/> 2 No (COMPLETE SEC. II)	
B. Number and street name of mailing address P.O. Box 739			
C. City, town, village, etc. SOUTH WINDSOR		D. State CT	E. Zip Code 06074

SEC. III				Name, title, and telephone number of the person who should be contacted if questions arise regarding this report. Instruction page 7.			
A. Please print: Last name		First name		M.I.		B. Title	
HECHT		KELVIN		G.		ENVIRONMENTAL COORDINATOR	
C. Telephone						203 727-2265	
						Extension	

SEC. IV Enter the Standard Industrial Classification (SIC) Code that describes the principal products, group of products, produced or distributed, or the services rendered at the site's physical location. Enter more than one SIC Code only if no one industry description includes the combined activities of the site. Instruction page 8.	
A. <div style="border: 1px solid black; padding: 2px; display: inline-block;">3629</div>	B. <div style="border: 1px solid black; padding: 2px; display: inline-block;"> <div style="border-bottom: 1px solid black; width: 100%; height: 15px;"></div> </div>
C. <div style="border: 1px solid black; padding: 2px; display: inline-block;"> <div style="border-bottom: 1px solid black; width: 100%; height: 15px;"></div> </div>	D. <div style="border: 1px solid black; padding: 2px; display: inline-block;"> <div style="border-bottom: 1px solid black; width: 100%; height: 15px;"></div> </div>

SEC. V	I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.		
A. Number of form pages submitted			
Form IC	<input type="text" value="2"/>	Form GM	<input type="text" value="21"/>
		Form WR	<input type="text" value=""/>
		Form PS	<input type="text" value=""/>
B. Please print: Last name		First name	M.I.
HECHT		KELVIN	G.
C. Title		ENVIRONMENTAL COORDINATOR	
D. Signature		E. Date of signature	
		02 22 90	
		MO. DAY YR.	

Sec. VI

Generator Status

A. 1989 generation (CHECK ONE BOX BELOW)
Instruction page 8

- ☐ 1 No (CONTINUE TO BOX B)
☒ 2 LQG
☐ 3 SQG
☐ 4 CESQG (SKIP TO SEC. VII)

B. Reason for not generating (CHECK ALL THAT APPLY)
Page 10

- ☐ 1 Never generated
☐ 2 Out of business
☐ 3 Only excluded or delisted waste
☐ 4 Only non-hazardous waste
☐ 5 Periodic or occasional generator
☐ 6 Waste minimization activity
☐ 7 Other (SPECIFY IN COMMENTS)

Sec. VII

On-Site Waste Management Status

A. Storage

Instruction page 11

3

B. RCRA treatment, recycling, or disposal
Page 11

1

C. RCRA-exempt treatment, recycling, or disposal
Page 12

1

Sec. VIII

Waste Minimization Activity during 1988 or 1989

A. Did this site begin or expand a source reduction activity during 1988 or 1989?
Instruction page 12

- ☒ 1 Yes
☐ 2 No

B. Did this site begin or expand a recycling activity during 1988 or 1989?
Page 13

- ☒ 1 Yes
☐ 2 No

C. Did this site conduct a source reduction or recycling opportunity assessment during 1988 or 1989?
Page 13

- ☒ 1 Yes
☐ 2 No

D. What factors have limited this site from initiating new source reduction activities during 1988 or 1989?
(CHECK ALL THAT APPLY)
Page 13

- ☐ 01 No factors have limited new source reduction activities.
☐ 02 Insufficient capital to install new source reduction equipment or implement new source reduction practices.
☒ 03 Lack of technical information on source reduction techniques applicable to the specific production processes.
☐ 04 Source reduction is not economically feasible: cost savings in waste management or production will not recover the capital investment.
☒ 05 Concern that product quality may decline as a result of source reduction.
☒ 06 Technical limitations of the production processes.
☐ 07 Permitting burdens.
☐ 08 Other (SPECIFY IN COMMENTS)

E. What factors have limited this site from initiating new on-site or off-site recycling activities during 1988 or 1989?
(CHECK ALL THAT APPLY)
Page 13

- ☐ 01 No factors have limited new recycling activities.
☐ 02 Insufficient capital to install new recycling equipment or implement new recycling practices.
☒ 03 Lack of technical information on recycling techniques applicable to this site's specific production processes.
☐ 04 Recycling not economically feasible: cost savings in waste management or production will not recover the capital investment.
☒ 05 Concern that product quality may decline as a result of recycling.
☐ 06 Requirements to manifest wastes inhibit shipments off site for recycling.
☐ 07 Financial liability provisions inhibit shipments off site for recycling.
☒ 08 Technical limitations of product processes inhibit shipments off site for recycling.
☒ 09 Technical limitations of production processes inhibit on-site recycling.
☐ 10 Permitting burdens inhibit recycling.
☐ 11 Lack of permitted off-site recycling facilities.
☐ 12 Unable to identify a market for recyclable materials.
☐ 13 Other (SPECIFY IN COMMENTS)

Comments: